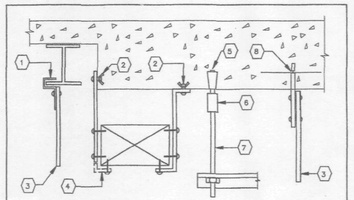
GENERAL NYC BUILDING CODE NOTES

(ALL WORK TO COMPLY WITH THE APPLICABLE SECTIONS OF THE BUILDING CODE, CITY OF NEW YORK EFFECTIVE AUG. 15, 1987 REV. 87/88)
MATERIALS & EQUIPMENT SUBJECT TO CONTROLLED INSPECTION.
A. MECHANICAL VENTILATION (M.V.) AIR CONDITIONING (A.C.) REFRIGERATION.
(1) INSPECTION AND TEST OF REQUIRED VENTILATION SYSTEMS PER C26-13R1.3
(2) INSPECTION AND TEST OF REFRIGERATION SYSTEMS PER C26-13R1.4 & RS-11.6

A STATEMENT WILL BE FILED (BY THE OWNER OR TENANT IN POSSESSION) THAT THE VENTILATION SYSTEM WILL BE KEPT IN CONTINUOUS OPERATION DURING NORMAL OCCUPANCY OF THE PREMISES.
THE VENTILATION INDEX FOR ALL AREAS COMPLIES WITH THE MINIMUM CODE REQUIREMENTS (C26-1305.2, C26-1206.3). ALL CALCULATIONS OF VENTILATION INDEX MADE WITHOUT TAKING ANY CREDIT FOR EXTERIOR WINDOWS AND OR OPENINGS FOR AC AREAS.



1. H.I.T. OR CADDY BEAM CLIP FOR APPROPRIATE BEAM THICKNESS.
2. PHILLIPS JD4C (BSA APPROVAL NO. 30858 SM) OR EQUAL, OR FORCED ENTRY FASTENERS.
3. BAND IRON HANGER PER CODE OR SMACNA.
4. TURN UNDER WHEN DUCT IS OVER 47" WIDE.
5. PHILLIPS JS8C OR EQUAL.
6. THREADED ROD COUPLING.
7. THREADED ROD (SIZE AS REQUIRED 3/8" MIN).
8. SCISSOR CLAMP OR REINFORCED ROD.
9. G.A.T. CHANNEL CLAMP SLAB FASTENER.
10. STEEL ROD (3/8"MIN.)

METHOD OF HANGING DUCTWORK

SELF CONTAINED AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	AREA SERVED	LOCATION	NOM. CAPACITY (TONS) REFRIG.	FANS CFM	FANS ESP (IN. W.G.)	FANS HP	DIRECT EXPANSION COOLING COIL AIR TEMP.(°F) ENT. DB	ENT. WB	LVG. DB	LVG. WB	DIRECT EXPANSION COOLING COIL TOTAL MBH	SENS. MBH	FACE AREA (SQ. FT.)	NO. OF ROWS	ELEC. V/Ph/Hz	CONDENSER(WATER-COOLED) DESIGN PRESS. DROP (PSIG)	GPM	E.A.T. (°F)	P.D. (FEET)	FILTER TYPE	FILTER NO.	FILTER SIZE (L×W×D)	MANUFACTURER/ MODEL NO.	REMARKS
AC-1,2,3	LAN RM	23RD FL.	5	2000	.5	2	75	62.5	56	55	64.6	53.8	6.67	4	468/3/60	388	18	85	6	FLAT	–	–	LIEBERT DATAMATE®	SEE NOTE 1 MEA No.182-84-E
AC-7,8	RADIO ROOM	ROOF	1.5	–	–	–	–	–	–	–	14.9	–	–	–	285/1/60	–	–	–	–	–	–	–	FJAC-15	MEA No.186-78-E
AC-6	PRESS ROOM	23RD FL.	8	3200	1	1½	80	67	60	59	96	67	7.85	3	468/3/60	388	18	85	8	FLAT	4	15x20x1	SYANG SM LIB-7.5	MEA No.182-72-E
AC-5	WATCH COMMAND	23RD FL.	10	4000	1	3	80	67	68	59	122	85	9.82	3	468/3/60	388	22	85	6	FLAT	3	20x25x1	SYANG SM LIB-10	MEA No.182-72-E
AC-4	EQUIP. ROOM	23RD FL.	10	4000	3/4	1½	80	67	68	59	115	98	9.4	4	468/3/60	388	22	85	8	FLAT	1 2	15x20 20x20	SYANG SM LIB-12	MEA No.371-63-E

NOTES:
1. COOLING ONLY UNITS. 388PSIG CONSTRUCTION. PROVIDE FLOOR STAND, CONDENSATE DRAIN PUMP, 2-WAY WATER REGULATING VALVE, FIRESTAT, SMOKE DETECTOR, LEAK DETECTOR. UNITS TO BE SUITABLE FOR CORNER INSTALLATION. COORDINATE ARRANGEMENT.
2. PROVIDE A WALL SLEEVE AND 3.0KW ELECTRIC HEATING COIL.
3. PROVIDE OVERSIZED FAN MOTOR AND NON-STANDARD EVAPORATOR FAN DRIVE FOR UNITS AC-4, AC-5 AND AC-6.
4. PROVIDE ENERGY SAVING FREE COOLING WATER COIL FOR UNITS AC-4, AC-5 AND AC-6.

FAN POWERED TERMINAL UNIT SCHEDULE (TITUS MODELS FYDS AS STANDARD)

UNIT SYMBOL	PRIMARY AIR RANGE (CFM) MIN-MAX	PREHEAT VALVE SIZE (INCH)	HEATING COIL TYPE	AIR TEMP(°F) ENT	LVG	KW	FAN CFM (L/s)	HP	RPM (MAX)	ELECTRICAL SUPPLY TO TERMINAL VOLTS/PHASE	MAXIMUM NC LEVEL AT .5" SP AT INLET	REMARKS
A	UP TO 400	8	ELECT.	72	84	3.8	400	.5	1/10	277/1/60	25	
B	401-700	10	ELECT	72	84	5.8	700	.5	¼	277/1/60	30	
C	701-1200	12	ELECT	72	84	7.8	1200	.5	1/3	277/1/60	35	NOTE 1
D	1201-1400	12	ELECT	72	84	8.8	1400	.5	½	277/1/60	35	NOTE 1
E	1401-1700	14	ELECT	72	84	10.8	1700	.5	¾	277/1/60	35	NOTE 1

NOTE:
1. ALL COMPONENTS DESIGNATED FOR THIS TERMINAL SIZE TO BE INSTALL IN THE NEXT, LARGER SIZE, CASING.
2. FPB-2B WITHOUT HEATING COIL.

FAN SCHEDULE (GREENHECK AS STANDARD)

FAN NO.	LOCATION	SERVICE	CFM	STATIC PRESS. IN.W.G.	RPM	OUTLET VELOC. F.P.M.	TYPE	MODEL NO.	BHP	MOTOR HP	Volt/Ph/Hz	VIBRATION ISOLATION SPEC. TYPE	DEFLECTION (INCHES)	REMARKS
TE-1	23RD FL.	TOILETS	1150	1.25	1688	–	INLINE	BSQ-128	.5	½	468/3/60	SPR.	½	
E-1	23RD FL.	SM. RM	450	1	1868	–	INLINE	BSQ-88	.26	½	468/3/60	SPR.	½	
E-2	23RD FL.	EL. CL.	350	.25	1080	–	INLINE	CSP-250	–	¼	115/1/60	SPR.	¾	
E-3	7TH FL.	GEN. RM.	2400	.75	1558	–	INLINE	BSQ-148	.77	1	468/3/60	SPR.	½	
E-4	7TH FL.	TANK RM	500	.75	1858	–	INLINE	BSQ-88	.26	½	468/3/60	SPR.	½	
E-5	1ST FL.	F.O. RM	450	1.25	2815	–	INLINE	BSQ-88	.33	½	468/3/60	SPR.	½	SEE NOTE
E-6	23rd FL.	CONF. RM	600	.25	1858	–	INLINE	CSP-255	–	1/3	115/1/60	SPR.	⅝	

NOTE: FAN E-5 SHALL BE PROVIDED WITH EXPLOSION-PROOF MOTOR.

VARIABLE AIR VOLUME TERMINAL BOX SCHEDULE (TITUS AS STANDARD)

SYMBOL	INLET SIZE (DIA.)	CFM RANGE	MAX. AIR INLET NO. OF MAX. CFM IN WG.	MAX. N.C. LEVEL MAX. CFM & MIN. S.P. IN WG.	MIN. CFM (WITH REHEAT ADJUSTED LIMIT)	MODEL No.	REMARKS
A	5	0-300	0.11	27	10	DESV	
B	6	301-600	0.18	29	10	DESV	
C	7	401-600	0.28	38	10	DESV	
D	8	601-700	0.28	25	10	DESV	
E	9	701-900	0.28	29	10	DESV	
F	10	901-1200	0.28	34	10	DESV	
G	12	1201-1700	0.28	33	10	DESV	

NOTE: MINIMUM SET POINT-38%

ELECTRIC DUCT HEATER SCHEDULE

UNIT NO.	AREA SERVED	LOCATION	TYPE	CFM	E.A.T. (°F)	L.A.T. (°F)	kW	COIL WxH	NO. OF STAGES	V/Ph	MFR. & MODEL NO.	REMARKS
EHC-1	AC-5	23RD FL.	SLIP-IN	4000	58	77	25	85	3	468/3/60	BRASCH	SEE NOTE
EHC-2	AC-6	23RD FL.	SLIP-IN	3000	58	73	15	51	5	468/3/60	BRASCH	SEE NOTE

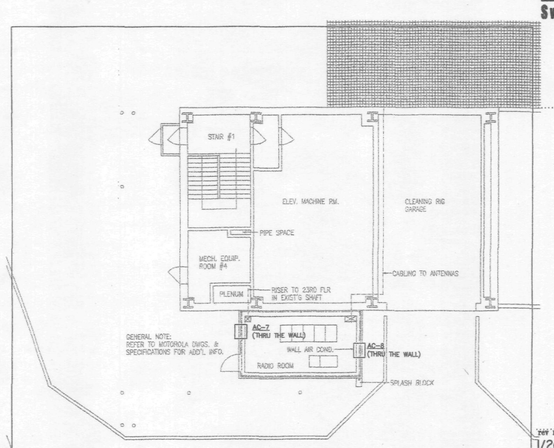
UNIT HEATER SCHEDULE (TRANE AS STANDARD)

UNIT NO.	AREA SERVED	LOCATION	TYPE	AIR QTY (CFM)	AIR TEMP(°F) ENT.	LVG.	TOTAL CAPACITY (MBH)	HEATING COIL ELECT. kW	FAN MOTOR HP	RPM	Volts/Ph/Hz	MODEL NO.	REMARKS
EUH-1&2	MER	7TH FL.	ELEC.	1100	50	92	51	15	1/20	1550	468/3/60	UHEC-15	
EUH-3&4	MER	23RD FL.	ELEC.	700	50	95	18	7.5	1/50	1550	468/3/60	UHEC-07	

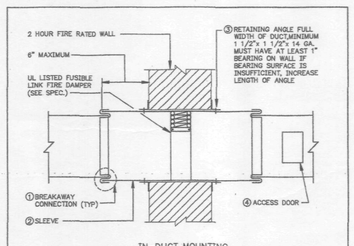
PUMP SCHEDULE

PUMP NO.	LOCATION	SERVICE	TYPE	GPM	TOTAL HEAD F.T.	SHUT OFF HEAD F.T.	IMPELLER DIA. INCHES	MOTOR MFR. & MODEL	MOTOR SHP	H.P.	RPM	ELEC. DATA	REMARKS
P-1,2,3	23RD FL.	EMERGENCY BOOST WATER	END SUCTION	130	70 GPM 75 PSIG	85½	7½	WEINMAN 5½-KQ	5	7½	3750	468/3/60	
P-1&2	1ST FL.	F.O. FILL	GEAR	2000	50 GPM	–	–	125 PREFER UTILITIES	LO-207	2	1140	468/3/60	SEE NOTE
P-3&7	1ST FL.	F.O.TRANSFER	GEAR	700	50 GPM 75 PSIG	–	–	125 PREFER UTILITIES	LO-203	3/4	1140	468/3/60	SEE NOTE

NOTE: FUEL OIL PUMPS SHALL BE FACTORY ASSEMBLED AND SHIPPED TO THE JOB SITE AS A PUMPING AND STRAINING SET CONSISTING OF DUPLEX STRAINER, TWO PUMPS AND MOTOR ASSEMBLIES, PUMP RELIEF VALVE, ISOLATING GATE VALVES AND PRESSURE GAUGES.



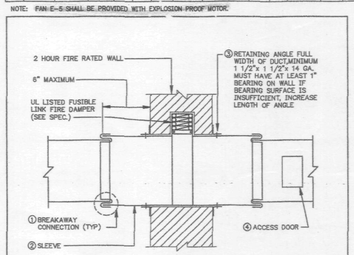
PART ROOF / RADIO ROOM PLAN
SCALE: 1/8"-1'-0"



IN-DUCT MOUNTING
FIRE DAMPER

NOTE: THIS INSTALLATION DETAIL IS TYPICAL FOR ALL TYPES OF FIRE DAMPERS (A,B,& C). FOR TYPE B & C DAMPERS, THE SHUTTER SHALL BE OUTSIDE OF AIR STREAM.
① BREAKAWAY CONNECTION SHALL BE SIMILAR TO UL555 SEC. 14.4 APPROVED TYPES, AND NFPA 96A.
② SLEEVE MAY BE DUCT GAUGE IF UL555 CONNECTIONS ARE USED.SLEEVE SHALL BE 16 GA. UP TO 36"Wx24"H OR 14 GA. FOR LARGER SIZES.
③ SHEET METAL CONTRACTOR SHALL FURNISH CONSTRUCTION CONTRACTOR WITH OPENING SIZES.ALL OPENINGS SHALL BE PACKED WITH SUITABLE FIRE RETARDANT MATERIAL.
④ ACCESS DOOR MUST BE LOCATED AS REQUIRED TO ENABLE RESETTING OF DAMPER. MORE THAN ONE DOOR MAY BE REQUIRED ON LARGE DUCTS.

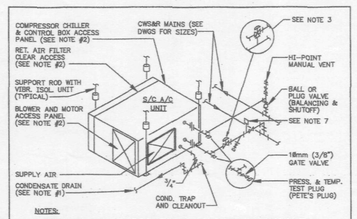
AUTOMATIC FIRE DAMPERS (F.L.D.)



OUT-DUCT MOUNTING
FIRE DAMPER

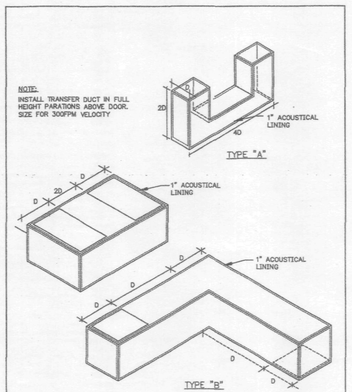
1. BREAKAWAY CONNECTION SHALL BE SIMILAR TO UL555 SEC. 14.4 APPROVED TYPES, AND NFPA 96A.
2. SLEEVE MAY BE DUCT GAUGE IF UL555 CONNECTIONS ARE USED.SLEEVE SHALL BE 16 GA. UP TO 36"Wx24"H OR 14 GA. FOR LARGER SIZES.
3. SHEET METAL CONTRACTOR SHALL FURNISH CONSTRUCTION CONTRACTOR WITH OPENING SIZES.ALL OPENINGS SHALL BE PACKED WITH SUITABLE FIRE RETARDANT MATERIAL.
4. ACCESS DOOR MUST BE LOCATED AS REQUIRED TO ENABLE RESETTING OF DAMPER. MORE THAN ONE DOOR MAY BE REQUIRED ON LARGE DUCTS.

AUTOMATIC FIRE DAMPERS (F.L.D.)

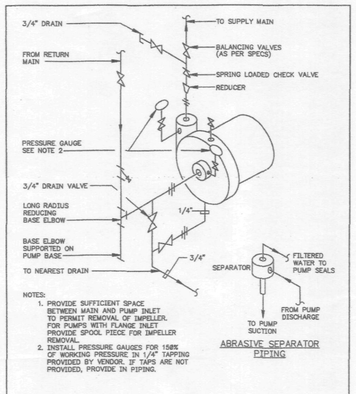


NOTES:
1. UNIT TO BE INSTALLED AT ELEVATION SO AS TO PERMIT GRAVITY DRAIN FROM CONDENSATE PAN TRAP (ABOVE HUNG CEILING) TO BUILDING DRAIN. IF NOT POSSIBLE, PROVIDE CONDENSATE PUMP.
2. UNIT SHALL BE LOCATED SO THAT ACCESS IS CLEAR TO FILTERS AND ACCESS PANELS.
3. PROVIDE A 2-WAY REGULATING VALVE VALVE SHALL HAVE MAXIMUM ΔP=(5 PSIG)
4. UNIT SHALL BE STRAIGHT COOLING.
5. VALVE PRESSURE RATING AS FOLLOWS; 250 PSIG
6. PROVIDE ROOM STAT WITH SUB-BASE.
7. PROVIDE DIFFERENTIAL PRESSURE SWITCH TO PREVENT COMPRESSOR OPERATION WITH LOW WATER FLOW.
8. REGULATING VALVE SHALL STOP WATER FLOW WHEN POWER FAILS OR UNIT IS STOPPED.
9. ALL FLOOR MOUNTED AC UNITS TO BE PROVIDED WITH THERMOMETERS AND PRESSURE GAUGES ON CWS AND CWR.

SUPPLEMENTARY SELF CONTAINED UNIT PIPING DETAIL



TRANSFER (JUMPER) DUCT TYPES



NOTES:
1. PROVIDE SUFFICIENT SPACE BETWEEN MAIN AND PUMP INLET TO PERMIT REMOVAL OF IMPELLER. FOR PUMPS WITH FLANGE INLET PROVIDE SPOOL PIECE FOR IMPELLER REMOVAL.
2. INSTALL PRESSURE GAUGES FOR 150% OF WORKING PRESSURE IN 1/4" TAPPING PROVIDED BY VENDOR. IF TAPS ARE NOT PROVIDED, PROVIDE IN PIPING.

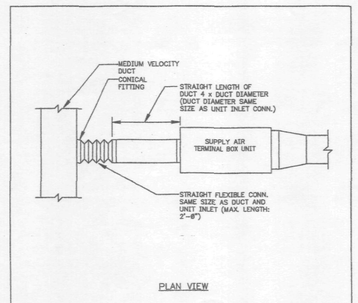
ABRASIVE SEPARATOR PIPING

WATER PUMP PIPING END SUCTION PUMP

INTERPRETATION OF SINGLE LINE DUCTWORK

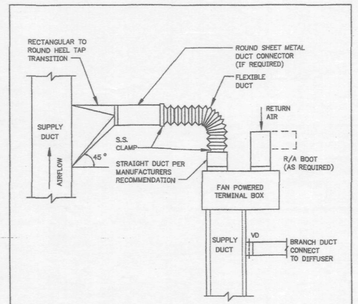
WHERE DUCTWORK IS SHOWN SINGLE LINE, FOLLOWING SHALL APPLY FOR ACTUAL DUCT CONSTR.

SINGLE LINE	ACTUAL CONSTRUCTION
ELBOW	DOUBLE THICKNESS TURNING VANES (EITHER TYPE ELBOW AT CONTR. OPTION-SUBJECT TO SPACE CONDITIONS).
SPLIT OR TAKE-OFF	AJB SHALL BE PROPORTIONAL TO AIR QUANTITY, 4" (10cm) MIN. IF A OR B IS LESS THAN 4" (10cm), USE TAP DETAIL. VOLUME DAMPER IN SHORTER BRANCH. (CONSTANT VOL. SYST. / VARIABLE VOL. SYST.)
TAP TAKE-OFF	VOLUME DAMPER; ADJUSTABLE TAP UP TO 1000FPM OVER 1000 FPM USE V.D. ONLY (AIR FLOW SUPPLY / AIR FLOW RETURN)
RISE OR DROP	OFFSET IN VERTICAL PLANE SHALL BE MADE WITH SMOOTH FITTINGS. (ELEVATION)
HORIZONTAL OFFSET	OFFSET IN HORIZONTAL PLANE SHALL BE MADE WITH SMOOTH FITTINGS.
PLENUM OVER DIFFUSER / CONN. TO LINEAR DIFFUSER PLENUM	PLENUM OVER LINEAR SUPPLY OR RETURN DIFFUSER OR GRILLE; CONICAL FITTINGS; REGULATION OF VOLUME DAMPER SHALL BE ACCESSIBLE THROUGH THE FACE OF DIFFUSER
FLD FIRE RATED WALL / FIRE DAMPER	ACCESS DOOR IN DUCT; FLD MOUNTING TYPE DEPENDS ON AIR VELOCITIES AND DUCT SIZE - SEE SPECIFICATIONS.
HTG. COIL / HEATING COIL	FLARE/TRANSITION DUCT TO ACCOMMODATE COIL; COIL WITH FLANGED CONNECTION ALL AROUND; ACCESS DOORS (AIR FLOW)

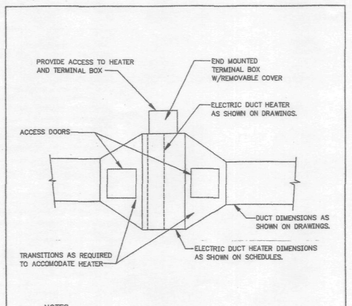


PLAN VIEW

N.Y.C. TYPICAL AIR TERMINAL BOX UNIT INLET DUCT CONNECTION DETAIL

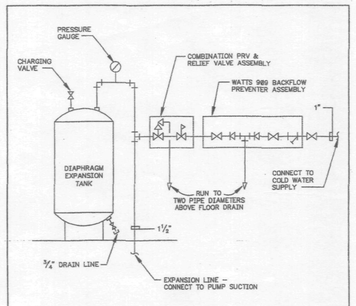


TYPICAL FAN-POWERED TERMINAL UNIT CONNECTION DETAIL



NOTES:
1. PROVIDE APPROVED DUCT HANGERS WITHIN 300mm (12") HORIZONTALLY (BOTH UPSTREAM AND DOWNSTREAM) OF THE HEATER.

ELECTRIC DUCT HEATER DETAIL
NO SCALE



COMPRESSION TANK DETAIL DIAPHRAGM TYPE

"THIS PLAN IS APPROVED ONLY FOR WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON, OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES."

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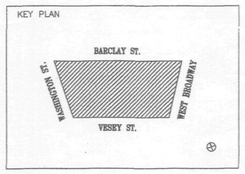
by	date	comment
	1/26/98	DD ISSUANCE
	4/6/98	ISSUED FOR REVIEW 100% C.D
	5/4/98	100% C.D.
	5/15/98	ADDENDUM No. 1
Δ2	7/24/98	BULLETIN No. 1
	9/25/98	ISSUED FOR P.A. APPROVAL

KEY PLAN



Job name
7 WORLD TRADE CENTER
NEW YORK, NY
Project No 1854 | Drawn By | Checked By
Title
ROOF PART PLAN
NOTES AND DETAILS
Scale NONE
Issue Date
Drawing No. M4.01

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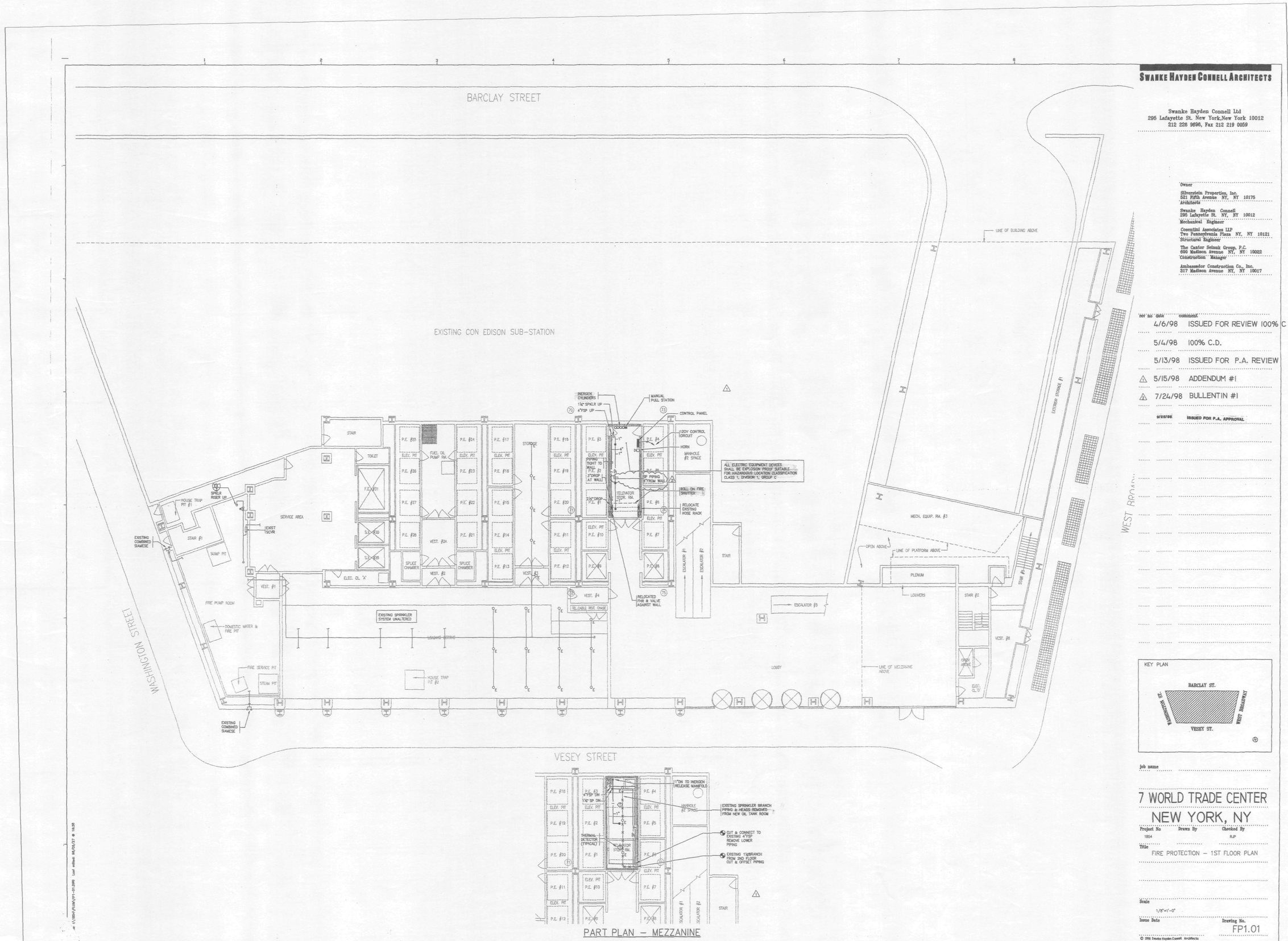
WTC1-25-3/DSE 3/Ten. Fit Out/M4.01



PART PLAN – MEZZANINE

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rev no	date	comment
	4/6/98	ISSUED FOR REVIEW 100% C
	5/4/98	100% C.D.
	5/13/98	ISSUED FOR P.A. REVIEW
△	5/15/98	ADDENDUM #1
△	7/24/98	BULLENTIN #1
	9/25/98	ISSUED FOR P.A. APPROVAL

KEY PLAN

job name

7 WORLD TRADE CENTER
NEW YORK, NY

Project No	Drawn By	Checked By
1854		RJP

Title
FIRE PROTECTION – 1ST FLOOR PLAN

Scale
1/8"=1'-0"

Issue Date

Drawing No.
FP1.01

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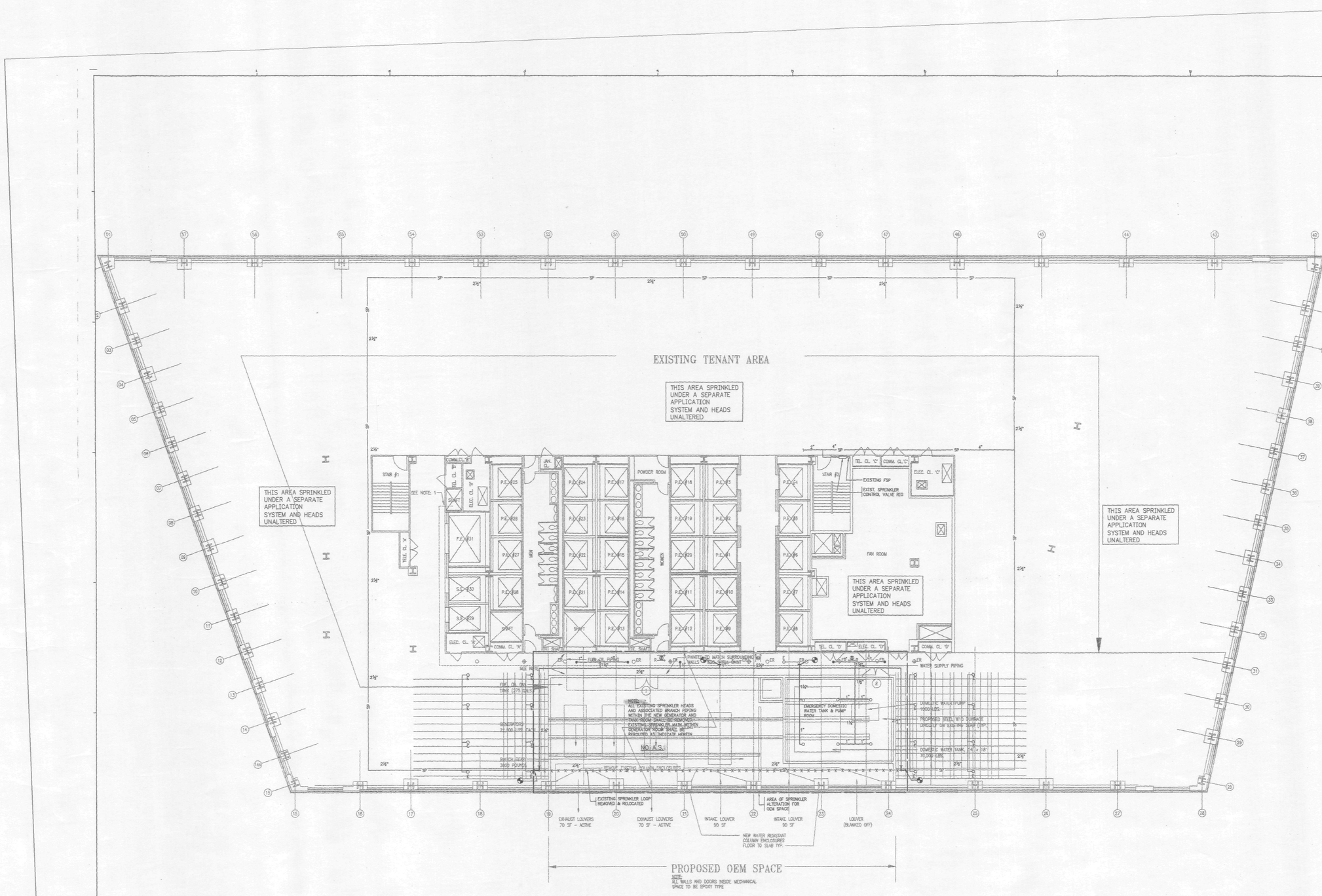
INTCI-25-3/DSK 3/TEN FitOut/FP1.01



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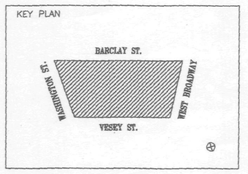
rev no	date	comment
	1/26/98	DD ISSUANCE
	4/6/98	ISSUED FOR REVIEW 100% C.D.
	5/4/98	100% C.D.
	5/13/98	ISSUED FOR P.A. REVIEW

KEY PLAN



Job name

7 WORLD TRADE CENTER

NEW YORK, NY

Project No	Drawn By	Checked By
1854		RJP

Title

FIRE PROTECTION – 7TH FLOOR PLAN

Scale
1/8"=1'-0"

Issue Date

Drawing No.
FP2.07

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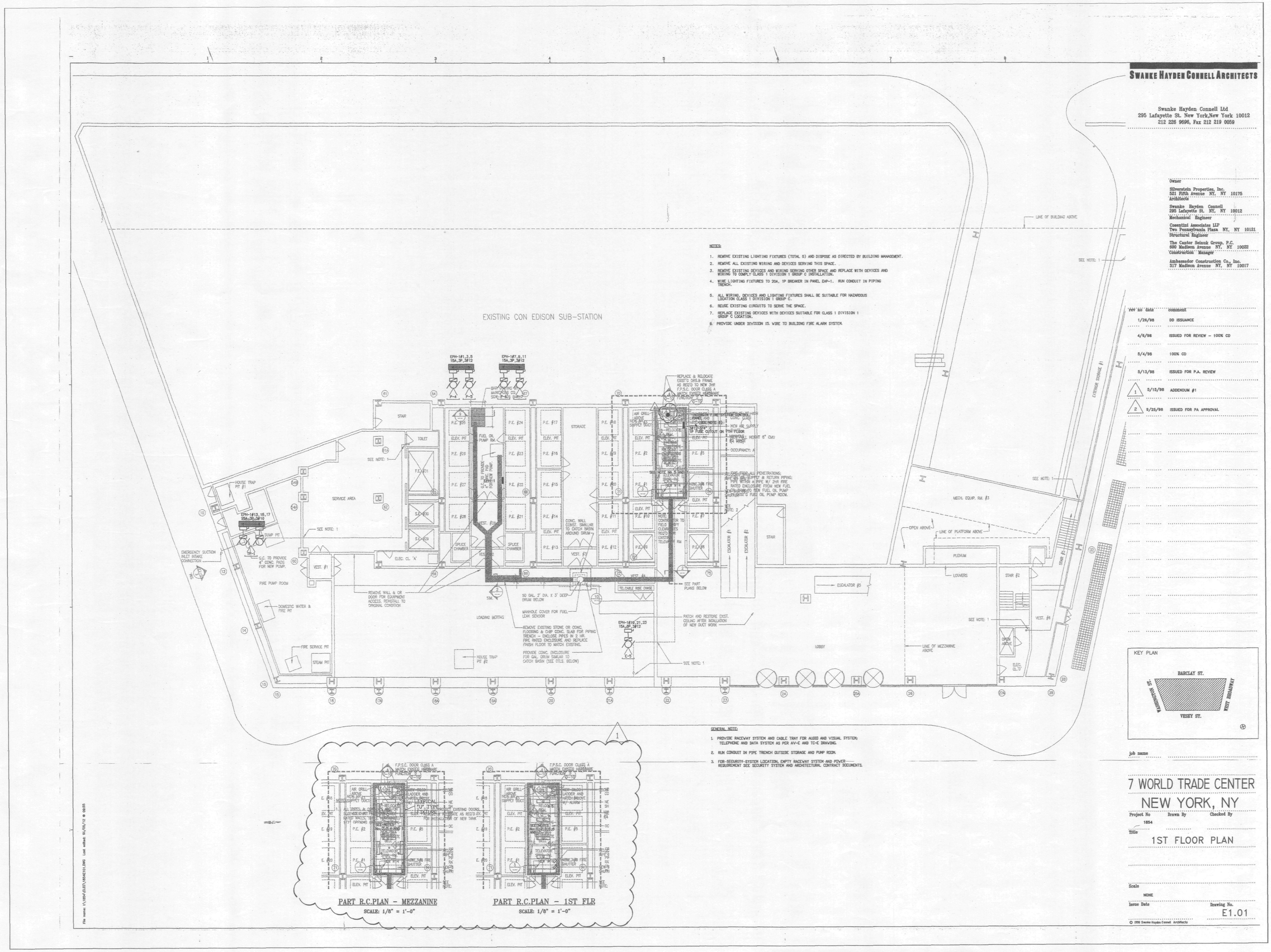
File name: I:\1854\VIJAY\FP5-07.DWG Last edited: 05/13/11 @ 09:14



NOTES:

1. REMOVE EXISTING LIGHTING FIXTURES (TOTAL 5) AND DISPOSE AS DIRECTED BY BUILDING MANAGEMENT.
2. REMOVE ALL EXISTING WIRING AND DEVICES SERVING THIS SPACE.
3. REMOVE EXISTING DEVICES AND WIRING SERVING OTHER SPACE AND REPLACE WITH DEVICES AND WIRING TO COMPLY CLASS 1 DIVISION 1 GROUP C INSTALLATION.
4. WIRE LIGHTING FIXTURES TO 20A, 1P BREAKER IN PANEL EHP-1. RUN CONDUIT IN PIPING TRENCH.
5. ALL WIRING, DEVICES AND LIGHTING FIXTURES SHALL BE SUITABLE FOR HAZARDOUS LOCATION CLASS 1 DIVISION 1 GROUP C.
6. REUSE EXISTING CIRCUITS TO SERVE THE SPACE.
7. REPLACE EXISTING DEVICES WITH DEVICES SUITABLE FOR CLASS 1 DIVISION 1 GROUP C LOCATION.
8. PROVIDE UNDER DIVISION 15 WIRE TO BUILDING FIRE ALARM SYSTEM

PART R.C.PLAN - MEZZANINE
SCALE: 1/8" = 1'-0"

PART R.C.PLAN - 1ST FLR
SCALE: 1/8" = 1'-0"

GENERAL NOTE:

1. PROVIDE RACEWAY SYSTEM AND CABLE TRAY FOR AUDIO AND VISUAL SYSTEM; TELEPHONE AND DATA SYSTEM AS PER AV-E AND TC-E DRAWING.
2. RUN CONDUIT IN PIPE TRENCH OUTSIDE STORAGE AND PUMP ROOM.
3. FOR SECURITY SYSTEM LOCATION, EMPTY RACEWAY SYSTEM AND POWER REQUIREMENT SEE SECURITY SYSTEM AND ARCHITECTURAL CONTRACT DOCUMENTS.

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### no	date	comment
	1/26/98	DD ISSUANCE
	4/6/98	ISSUED FOR REVIEW - 100% CD
	5/4/98	100% CD
	5/13/98	ISSUED FOR P.A. REVIEW
1	5/15/98	ADDENDUM #1
2	9/25/98	ISSUED FOR PA APPROVAL

KEY PLAN

job name

7 WORLD TRADE CENTER
NEW YORK, NY

Project No 1854 | Drawn By | Checked By

Title
1ST FLOOR PLAN

Scale
NONE

Issue Date

Drawing No.
E1.01

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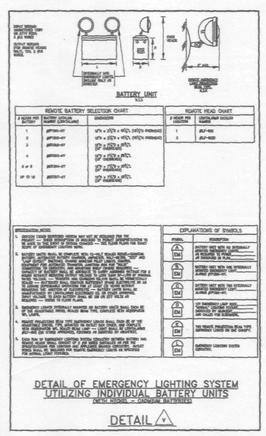

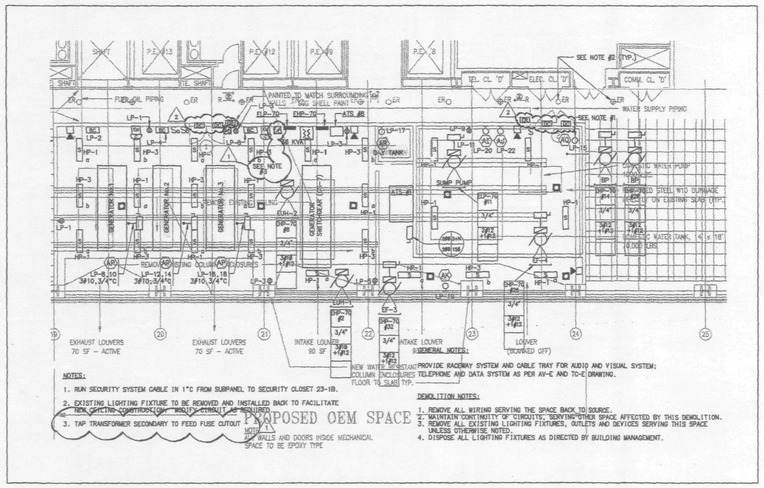

PART PLAN
7TH FLOOR

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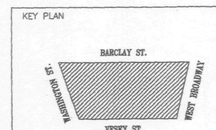
	3/2/98	PROGRESS
	4/6/98	ISSUED FOR REVIEW - 100% CD
	5/4/98	100% CD
1	5/15/98	ADDENDUM #1
2	7/24/98	ISSUED FOR BULLETIN #1

KEY PLAN



Job name
7 WORLD TRADE CENTER
NEW YORK, NY

Project No	Drawn By	Checked By
1834		

7TH FLOOR PART PLAN
LIGHTING,POWER, & SIGNAL

Scale
1/8"=1'-0"
Issue Date
Drawing No.
E1.07

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File name: L:\1834\CAD\E\1834E2107.DWG Last edited: 06/01/21 @ 13:47

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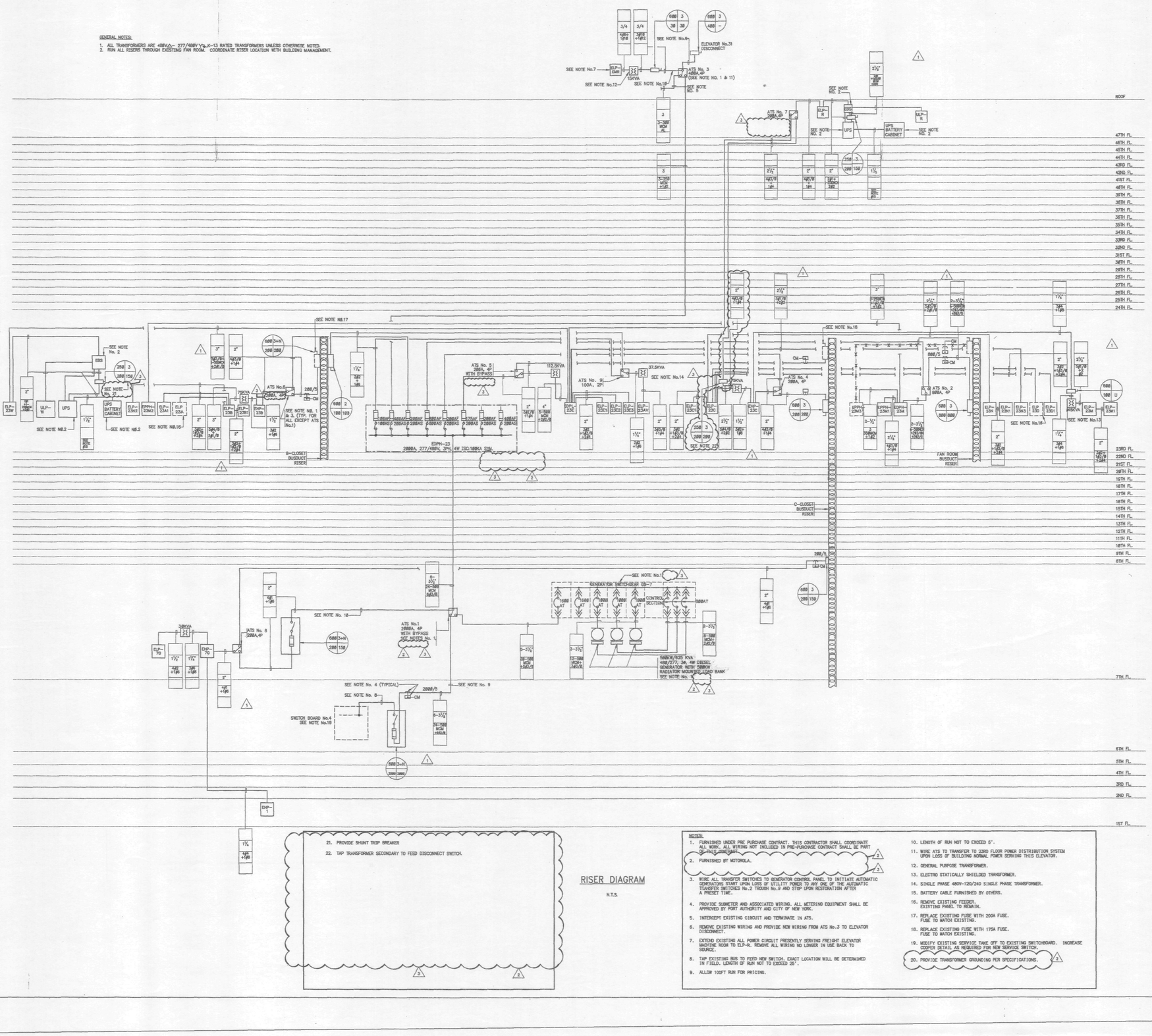
GENERAL NOTES:

1. ALL TRANSFORMERS ARE 480VΔ– 277/480V Y_S,K-13 RATED TRANSFORMERS UNLESS OTHERWISE NOTED.
2. RUN ALL RISERS THROUGH EXISTING FAN ROOM. COORDINATE RISER LOCATION WITH BUILDING MANAGEMENT.



21. PROVIDE SHUNT TRIP BREAKER
22. TAP TRANSFORMER SECONDARY TO FEED DISCONNECT SWITCH.

RISER DIAGRAM

N.T.S.

NOTES:

1. FURNISHED UNDER PRE PURCHASE CONTRACT. THIS CONTRACTOR SHALL COORDINATE ALL WORK. ALL WIRING NOT INCLUDED IN PRE-PURCHASE CONTRACT SHALL BE PART OF THIS CONTRACT.
2. FURNISHED BY MOTOROLA.
3. WIRE ALL TRANSFER SWITCHES TO GENERATOR CONTROL PANEL TO INITIATE AUTOMATIC GENERATORS START UPON LOSS OF UTILITY POWER TO ANY ONE OF THE AUTOMATIC TRANSFER SWITCHES No.2 TROUGH No.9 AND STOP UPON RESTORATION AFTER A PRESET TIME.
4. PROVIDE SUBMETER AND ASSOCIATED WIRING. ALL METERING EQUIPMENT SHALL BE APPROVED BY PORT AUTHORITY AND CITY OF NEW YORK.
5. INTERCEPT EXISTING CIRCUIT AND TERMINATE IN ATS.
6. REMOVE EXISTING WIRING AND PROVIDE NEW WIRING FROM ATS No.3 TO ELEVATOR DISCONNECT.
7. EXTEND EXISTING ALL POWER CIRCUIT PRESENTLY SERVING FREIGHT ELEVATOR MACHINE ROOM TO ELP-R. REMOVE ALL WIRING NO LONGER IN USE BACK TO SOURCE.
8. TAP EXISTING BUS TO FEED NEW SWITCH. EXACT LOCATION WILL BE DETERMINED IN FIELD. LENGTH OF RUN NOT TO EXCEED 25'.
9. ALLOW 100FT RUN FOR PRICING.
10. LENGTH OF RUN NOT TO EXCEED 5'.
11. WIRE ATS TO TRANSFER TO 23RD FLOOR POWER DISTRIBUTION SYSTEM UPON LOSS OF BUILDING NORMAL POWER SERVING THIS ELEVATOR.
12. GENERAL PURPOSE TRANSFORMER.
13. ELECTRO STATICALLY SHIELDED TRANSFORMER.
14. SINGLE PHASE 480V-120/240 SINGLE PHASE TRANSFORMER.
15. BATTERY CABLE FURNISHED BY OTHERS.
16. REMOVE EXISTING FEEDER. EXISTING PANEL TO REMAIN.
17. REPLACE EXISTING FUSE WITH 200A FUSE. FUSE TO MATCH EXISTING.
18. REPLACE EXISTING FUSE WITH 175A FUSE. FUSE TO MATCH EXISTING.
19. MODIFY EXISTING SERVICE TAKE OFF TO EXISTING SWITCHBOARD. INCREASE COOPER DETAIL AS REQUIRED FOR NEW SERVICE SWITCH.
20. PROVIDE TRANSFORMER GROUNDING PER SPECIFICATIONS.

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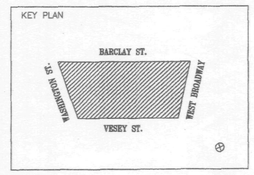
	5/13/98	ISSUED FOR P.A. REVIEW
1	5/15/98	ADDENDUM #1
2	7/24/98	ISSUED FOR BULLETIN #1
3	9/25/98	ISSUED FOR PA APPROVAL

KEY PLAN



job name

7 WORLD TRADE CENTER

NEW YORK, NY

Project No	Drawn By	Checked By
1854		

Title

POWER RISER DIAGRAM

Scale
NONE

Issue Date

Drawing No.
E3.01

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File name: \\BSA\USA7\1854E3\1.DWG Last edited: 09/09/98 @ 14:08

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LIST OF ELECTRIC MOTORS AND MOTOR CONTROLS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
ELECTRIC DRAWING SYMBOL	DESIGNATION OF MOTOR	MOTOR RATING: HORSEPOWER	MOTOR RATING: VOLTS	MOTOR RATING: PHASE	MOTOR RATING: TYPE	REFERENCE TO SPECIFICATION NOTES PERTAINING TO LIST OF ELECTRIC MOTORS AND MOTOR CONTROLS					REFERENCE TO MOTOR LIST ELECTRIC NOTES EXCEPTIONS TO BASIC SPECIFICATIONS ("x" NOTES)	STARTER: TYPE	STARTER: MOUNTING	MANUAL MOTOR CONTROL ACTUATING DEVICES IN STARTER COVER: PUSHBUTTONS	MANUAL MOTOR CONTROL ACTUATING DEVICES IN STARTER COVER: PILOT LIGHTS	MANUAL MOTOR CONTROL ACTUATING DEVICES IN STARTER COVER: SELECTOR SWITCH	INTERLOCKING	✓ INDICATES MOTOR IS CENTRALLY CONTROLLED VIA DDC SYSTEM CONTROL PANEL	MANUAL MOTOR CONTROL ACTUATING DEVICES NOT IN STARTER COVER: PUSH BUTTONS			MANUAL MOTOR CONTROL ACTUATING DEVICES NOT IN STARTER COVER: PILOT LIGHTS			MANUAL MOTOR CONTROL ACTUATING DEVICES NOT IN STARTER COVER: SELECTOR SWITCH			AUTOMATIC MOTOR CONTROL ACTUATING DEVICES: FOR OPERATION			AUTOMATIC MOTOR CONTROL ACTUATING DEVICES: FOR SAFETY			AUTOMATIC MOTOR CONTROL ACTUATED DEVICES		DESCRIPTION OF ELECTRIC WORK FOR MOTOR CONTROLS
																	FOR OPERATION	FOR SAFETY		ADJACENT TO MOTOR	AT CENTRAL CONTROL PANEL	AT OTHER LOCATION	ADJACENT TO MOTOR	AT CENTRAL CONTROL PANEL	AT OTHER LOCATION	ADJACENT TO MOTOR	AT CENTRAL CONTROL PANEL	AT OTHER LOCATION	ADJACENT TO MOTOR	ADJACENT TO STARTER	AT OTHER LOCATION	ADJACENT TO MOTOR	ADJACENT TO STARTER	AT OTHER LOCATION	ADJACENT TO MOTOR	AT OTHER LOCATION	
	AC-1	5T	460	3	H	13c	13f												✓	✓																								
	AC-2	5T	460	3	H	13c	13f												✓	✓																								
	AC-3	5T	460	3	H	13c	13f												✓	✓																								
	AC-4	5T	460	3	H	13c	13f												✓	✓																								
	AC-5	18T	460	3	H	13c	13f												✓	✓																								
	AC-6	8T	460	3	H	13c	13f												✓	✓																								
	TE-1	3/4	460	3	SC	13f							CMU	V		r	hoa																										
	E-1	1/2	460	3	SC	13f							CMU	V		r	hoa																										
	E-2	1/4	115	1	SC	13f							st	V		r	hoa																										
	E-3	1	460	3	SC	13f							CMU	V		r	hoa																										
	E-4	1/2	460	3	SC	13f							CMU	V		r	hoa																										
	E-5	1/2	460	3	SC	13f							CMU	V		r	hoa																										
	E-6	1/3	115	1	SC	13f							st	V		r	hoa																										
	CT-1	3B	460	3	2SC	13e	13c						2CMU	V		r	hoa			✓	✓																							
	CT-2	3B	460	3	2SC	13e	3c						2CMU	V		r	hoa			✓	✓																							
	P-1 – CW PUMP	7½	460	3	SC	13e							CMU	V		r	hoa			✓	✓																							
	P-2 – CW PUMP	7½	460	3	SC	13e							CMU	V		r	hoa			✓	✓																							
	P-3 – CW PUMP STAND-BY	7½	460	3	SC	13e							CMU	V		r	hoa			✓	✓																							
F.O. Fill Pump Set	P-4	2	460	3	SC								CMU	V		r				✓	✓																							
	P-5	2	460	3																✓	✓																							
F.O. Transfer Pump	P-6	3/4	460	3	SC															✓	✓																							
	P-7	3/4	460	3	SC															✓	✓																							
	SUMP PUMP	1/3	115	1																																							
	CONSTANT PRESSURE BOOSTER	20HP	460	3																																							
	DOMESTIC WATER TANK TRANSFER PUMP	2HP	460	3																																							
	FAN POWERED BOXES	3/4	277	1	SC	13c	13f																																				

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rev no	date	comment
	1/26/98	DD ISSUANCE
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	5/4/98	100% CD

REFERENCE TO MOTOR LIST ELECTRIC NOTES FOR CONTROL CIRCUIT WIRING ("c " NOTES)

(NUMERALS AHEAD OF LETTERS DENOTES MULTIPLE REFERENCE TO TO THE SAME NOTE AND INDICATES THE NUMBER OF TIMES THE STIPULATED WORK IS REQUIRED FOR AN INDIVIDUAL MOTOR.)

(EACH NOTE APPLIES IN FULL, EACH TIME IT IS REFERRED TO)

KEY PLAN

job name

7 WORLD TRADE CENTER

NEW YORK, NY

Project No: 1854 | Drawn By | Checked By

Title: MOTOR LIST

Scale: NONE

Issue Date

Drawing No.: E6.01

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File name: K:\1854\LIST\1854E601.DWG Last edited: 05/04/98 @ 07:54

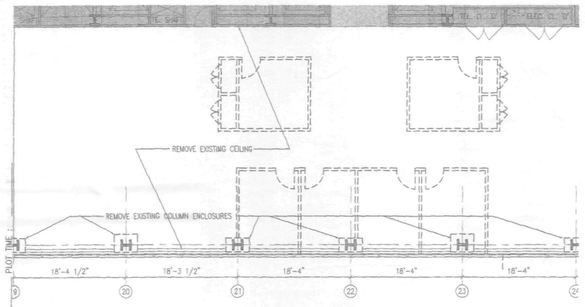
1854: 1854E601.PLT

1 7TH FLOOR PLAN
1/8" = 1'-0"

4 TYP. CONC. CURB @ PERIMETER WALLS

5 CONC. ENCLOSURES @ STL. DUNNAGE TYP.

6 CONC. CURB UNDER FUEL OIL DAY TANK



2 7TH FLOOR DEMO PLAN
1/8" = 1'-0"

DEMOLITION NOTES:

THE SCOPE OF DEMOLITION WORK HAS GENERALLY BEEN INDICATED ON THE DRAWING FOR CONTRACTORS INFORMATION. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE THE FULL SCOPE, EXTENT, NATURE AND MANNER OF DEMOLITION REQUIRED.

ONLY WORKMEN SKILLED AND KNOWLEDGEABLE IN THEIR RESPECTIVE TRADES SHALL BE EMPLOYED IN THE DEMOLITION OF ANY WORK.

CONTRACTORS SHALL TAKE SPECIAL CARE TO DEMOLISH ONLY THAT WORK WHICH IS REQUIRED TO BE DEMOLISHED AND NOT TO DISTURB ANY WORK WHICH IS REQUIRED TO REMAIN. IF IN THE COURSE OF DEMOLITION, CONTRACTOR DESTROYS OR DISTURBS ANY WORK WHICH IS TO REMAIN, THEN HE SHALL, AT HIS OWN EXPENSE, REPAIR OR REPLACE SUCH WORK AS NECESSARY.

ANY CUTS AND PENETRATIONS IN EXISTING WORK REQUIRED TO ACCOMPLISH NEW WORK SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND SHALL BE DONE NEATLY AND WITHOUT DISTURBANCE TO ADJACENT WORK TO REMAIN.

ALL DEMOLITION WORK TO BE DONE DURING THE HOURS DESIGNATED BY THE OWNER.

REMOVE AND DISCARD ALL DEMOLISHED ITEMS IN A MANNER FULLY APPROVED BY THE CITY OF NEW YORK AND ANY OTHER GOVERNMENT AGENCY.

G.C. TO REMOVE ALL CEILINGS, LIGHT FIXTURES AND FLOOR FINISHES IN ALL TENANT SPACES.

G.C. SHALL VERIFY ALL DIMENSIONS AND JOB CONDITIONS PRIOR TO SUBMITTING BIDS AND SHALL REPORT TO THE OWNERS REPRESENTATIVE ANY DISCREPANCIES OR OMISSIONS WHICH WOULD INTERFERE WITH COMPLETION OF WORK. ALL PERMITS SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORK.

REMOVE RADIATOR ENCLOSURES AS REQUIRED BY MECHANICAL DRAWINGS AND RELOCATE PIPING AS PER SPECIFICATIONS RETURN ALL ENCLOSURES TO BUILDING MANAGER.

DO NOT REMOVE ANY BASE BUILDING FIRE ALARMS UNLESS INDICATED BY ENGINEERING DRAWINGS.

ALL BASE BUILDING VENETIAN BLINDS ARE TO BE REMOVED AND TURNED OVER TO THE OWNER.

DO NOT DEMOLISH ANY EXISTING COLUMN ENCLOSURES, UNLESS OTHERWISE NOTED.

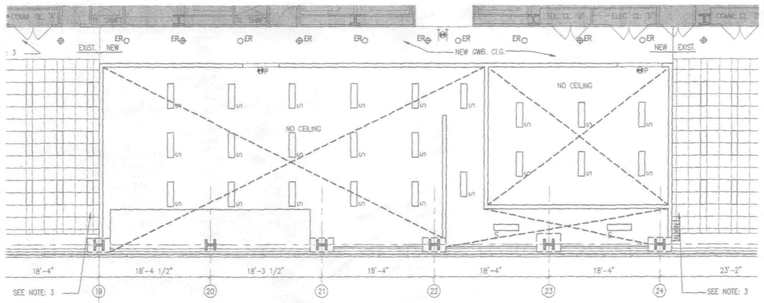
ALL EXISTING DOOR HARDWARE, LIGHT FIXTURES, AND FIRE SAFETY DEVICES ARE TO BE REMOVED AND SAVED BY G.C. FOR NEW CONSTRUCTION.

G.C. TO COORDINATE WITH TENANT FOR THE REMOVAL AND STORAGE OF ALL N.I.C. ITEMS.

ALL DEMOLITION WORK TO BE IN COMPLIANCE W/ ARTICLE 6, SUBCHAPTER 19 OF THE NYC CODE "DEMOLITION OPERATIONS"

NOTES:

1. PROVIDE SLEEVE IN EXISTING WALL FOR INSTALLATION OF NEW PIPING AND CONDUITS - PATCH, FIRE SAFE AND RESTORE ALL FINISHES BACK TO ORIGINAL CONDITION AFTER NEW INSTALLATION.
2. G.C. TO PROVIDE TEMPORARY WALLS DURING CONSTUCTION TO DEMISE SPACE AND PROTECT OCCUPANTS OF FLOOR FROM DUST AND NOISE.
3. PATCH AND RESTORE EXISTING ADJACENT CEILING AFTER NEW CONSTRUCTION.
4. RELOCATE EXISTING LIGHTS AS SHOWN IN PLANS.
5. NEW GYP. BD. CORRIDOR CEILING @ PIPE RUN
6. G.C. TO SEAL ALL EXPOSED FIRE PROOFING IN MECHANICAL ROOMS.
7. ALL GYP. BD. INSIDE NEW GENERATOR ROOM & WATER TANK STOR. ROOM TO BE WATER RESISTANT TYPE.
8. WATER PROOFING MEMBRANE (SEE SPECIFICATIONS)
9. PAINT ALL WALLS, COLUMN ENCLOSURES AND DOORS W/ EPOXY PAINT
10. SEE DWG. D-D FOR WALLS & DOOR INFORMATION



3 7TH FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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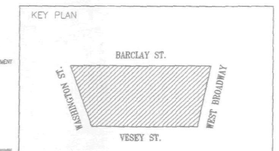
1	07/24/98	BULLETIN #1

KEY PLAN



job name
MAYOR'S OFFICE OF EMERGENCY MANAGEMENT
7WTC NYC, NY

Project No 5576A | Drawn By | Checked By

Title
PART 7TH FLOOR CONSTRUCTION PLAN

Scale 1/8" = 1'-0"
Issue Date
Drawing No. A-7-1

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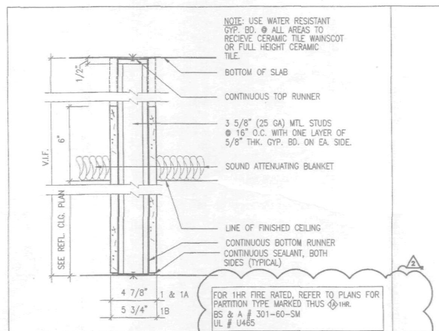
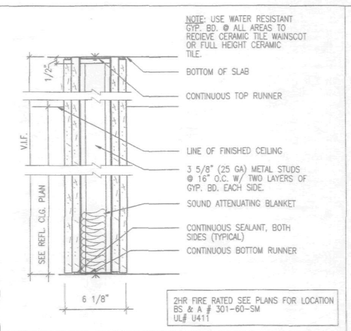
PLOT DATE



1 PTN TYPE "1"

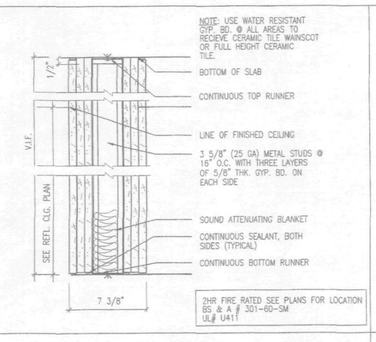
1A: SAME AS "1" W/ GYP. BD. FULL HEIGHT TO UNDERSIDE OF DECK & SOUND INSULATION

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL



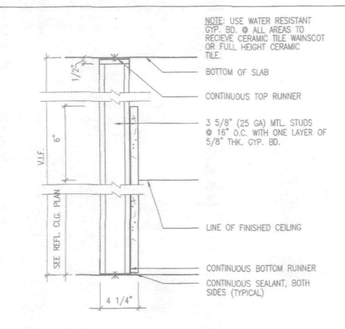
2 PTN TYPE "2"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL



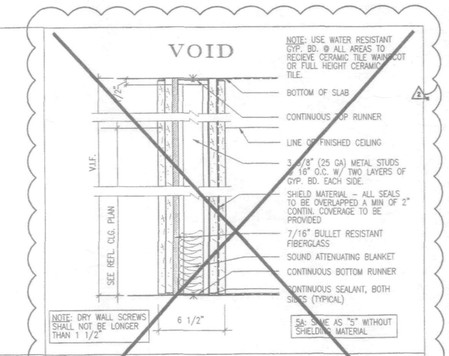
3 PTN TYPE "3"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL



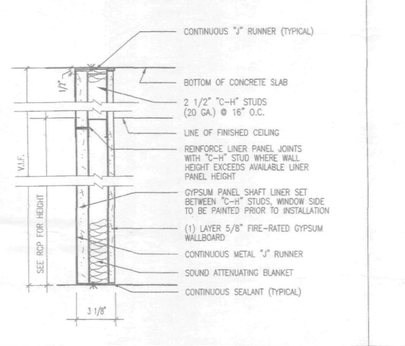
4 PTN TYPE "4"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL



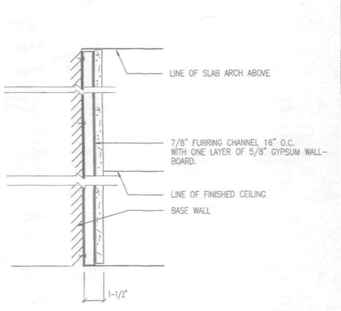
5 PTN TYPE "5" EMI RES.

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL



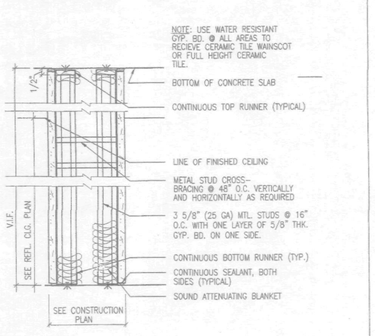
6 PTN TYPE "6"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL



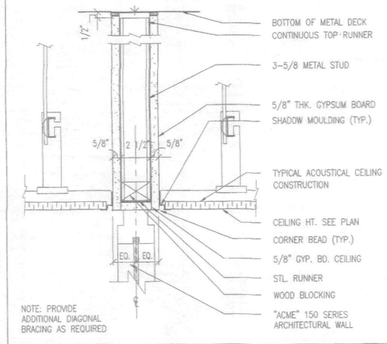
7 PTN TYPE "7"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL



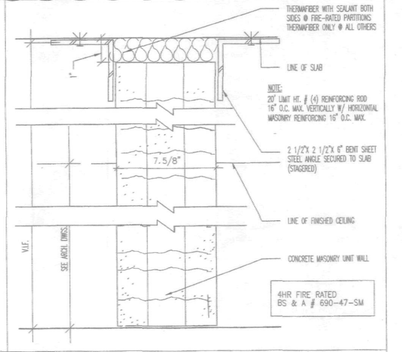
8 PTN TYPE "8"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL

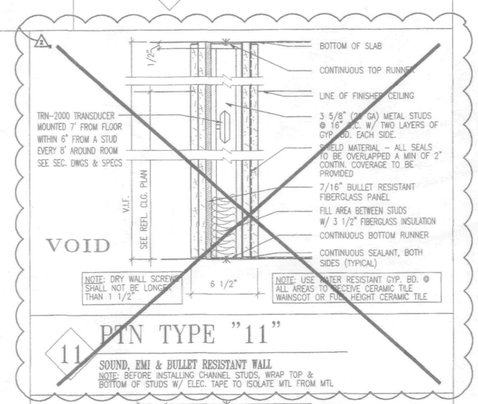


9 PTN TYPE "9"

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL



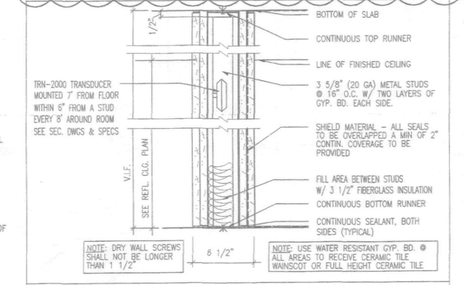
10 PTN TYPE "10"



11 PTN TYPE "11"

SOUND, EMI & BULLET RESISTANT WALL

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL

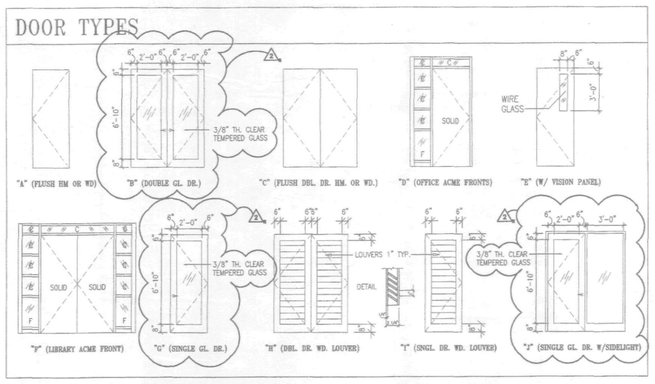


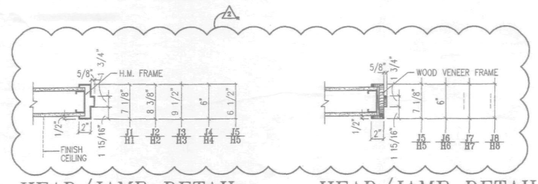
12 PTN TYPE "12"

SOUND & EMI RESISTANT WALL

NOTE: BEFORE INSTALLING CHANNEL STUDS, WRAP TOP & BOTTOM OF STUDS W/ ELEC. TAPE TO ISOLATE MTL FROM MTL

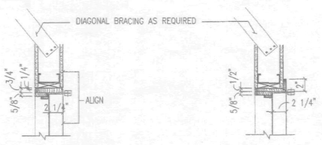
DOOR TYPES





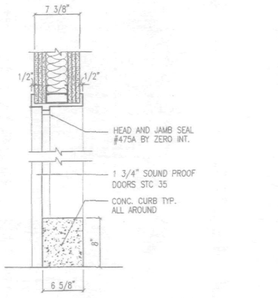
HEAD/JAMB DETAIL

HEAD/JAMB DETAIL

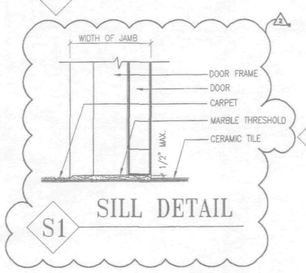


H9 HEAD DETAIL

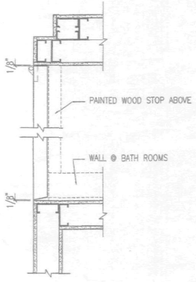
H10 HEAD DETAIL



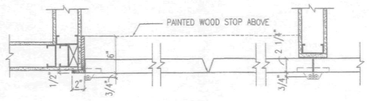
H11 HEAD/ SILL DETAIL



S1 SILL DETAIL



J9 JAMB DETAIL



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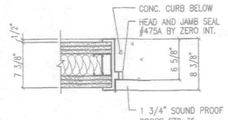

J11 JAMB DETAIL

SWANKE HAYDEN CONNELL ARCHITECTS

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295 Lafayette St. New York,New York 10012
212 226 9696, Fax 212 219 0059

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Architects
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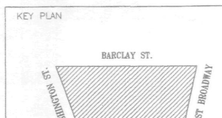
Mechanical Engineer
Cosentini Associates
Two Pennsylvania Plaza NY, NY 10121
Structural Engineer
The Cantor Seinuk Group, P.C.
600 Madison Avenue NY, NY 10022
Construction Manager
Ambassador Construction Co., Inc.
317 Madison Avenue NY, NY 10017

rev no	date	comment
	04/06/98	ISSUED FOR REVIEW 100% CD
	05/04/98	100% CD
1	05/15/98	ADDENDUM #1
2	07/24/98	BULLETIN #1
	9/25/98	ISSUED FOR P.A. APPROVAL

KEY PLAN



Job name
MAYOR'S OFFICE OF EMERGENCY MANAGEMENT
7WTC NYC, NY
Project No 5576A
Drawn By
Checked By
Title
PARTITION TYPES, DOOR SCHEDULE, & DOOR TYPES
Scale AS NOTED
Issue Date
Drawing No. D-0

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PLOT DATE: _____ PLOT TIME: _____

WTC1 - 25-5 / Disk 3 / Ten Fit Out / D-0